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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,966	10/24/2006	Michael Kollender	095309.56922US	9955
23911 CROWELL & I	7590 06/23/200 MORING LLP	EXAMINER		
INTELLECTUAL PROPERTY GROUP			KNIGHT, DEREK DOUGLAS	
P.O. BOX 14300 WASHINGTON, DC 20044-4300			ART UNIT	PAPER NUMBER
			3655	
			MAIL DATE	DELIVERY MODE
			06/23/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/553,966	KOLLENDER ET AL.			
Office Action Summary	Examiner	Art Unit			
	DEREK D. KNIGHT	3655			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>24 Oct</u> This action is <b>FINAL</b> . 2b) ☑ This     Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 12-35 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 12-35 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers  9) The specification is objected to by the Examiner 10) The drawing(s) filed on 19 October 2005 is/are:	vn from consideration. relection requirement. r. a)⊠ accepted or b)⊡ objected	· ·			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 10/19/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

#### **DETAILED ACTION**

## Information Disclosure Statement

The foreign references that are crosses out on the IDS were not considered because a translated copy was not supplied with applicant's submission of the IDS.

# Claim Objections

The claims are objected to because they include reference characters which are not enclosed within parentheses.

Reference characters corresponding to elements recited in the detailed description of the drawings and used in conjunction with the recitation of the same element or group of elements in the claims should be enclosed within parentheses so as to avoid confusion with other numbers or characters which may appear in the claims. See MPEP § 608.01(m).

#### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 13, 14, 16, 18, 27, 28 and 30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 13 and 27 recite "a desired profile of a clutch position", there is insufficient description in the specification as to the applicant's definition of "a desired profile of a clutch position". Applicant discloses the "desired clutch profile" being used to determine the triggering moment and also discloses the "desired clutch profile" being capable of having different gradients (page 5 of specification), however, there is no clear definition of the a desired profile of the clutch position. For the purposes of examination examiner will assume applicant is referring to the position of the clutch along its path of travel from engagement to disengagement and back again.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 12,13, 15, etc.: It is unclear to the examiner if "the clutch" recited in line 3 of, claim 12, and then again throughout the remainder of the claims, is synonymous with "[the] automated clutch" disclosed in line 2, of claim 12. For the purposes of examination, the Examiner will assume applicant is referring to "[the] automated clutch" recited in line 2, of claim 12.

Regarding claims 13, 14, 16, 18, 27, 28 and 30: The "desired profile of a clutch position" is not clearly defined in the specification. For the purposes of examination examiner will assume applicant is referring to the position of the clutch along its path of travel from engagement to disengagement and back again.

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Claim 29 recites the limitation "the gripping point" in line 4. There is insufficient antecedent basis for this limitation in the claim.

Claim 35 recites the limitation "the safety period" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 35 recites the limitation "the gripping point" in line 4. There is insufficient antecedent basis for this limitation in the claim.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims **12**, **13**, **21**, **22**, **25-27**, rejected under 35 U.S.C. 102 (b) as being anticipated by **REIK et al.** (US 6,230,862).

Regarding claims 12 and 26, REIK discloses in Fig. 10, a control device and a method for operating a drive train of a motor vehicle with an automated gearwheel change gearbox (402), an automated clutch (403), and a control device (not shown) for controlling the gearwheel change gearbox and the clutch, the clutch being opened when shifting takes place (col. 17, lines 12-13) from an original gear to a target gear of the gearwheel change gearbox, comprising triggering the automated clutch for closing (initiation of the shift causes the motor (450) to spin, and because the motor controls both the clutch engagement and the shifting, the triggering of the shift is also the triggering of the closing of the clutch) before the target gear is fully engaged, and

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determining a triggering moment for the automated clutch as a function of at least one of operational parameters and state variables of the drive train (such as the desire to shift).

Regarding **claims 13 and 27**, as best understood by the examiner, REIK discloses the triggering moment is determined as a function of a desired profile of a clutch position during closing of the clutch.

Regarding **claim 21**, as best understood by the examiner, REIK discloses comparing the clutch position with progress of the engagement of the target gear during closing of the clutch and, depending on a result of the comparing changing the desired profile of the clutch position (this occurs when a multiple-step shift is requested, see col. 17, lines 21-32).

Regarding **claim 22**, as best understood by the examiner, REIK discloses opening the clutch after breaking off the closing of the clutch and again beginning to close the clutch only after the target gear is fully engaged (see col. 17, lines 16-18).

Regarding **claim 25**, as best understood by the examiner, REIK discloses the desired profile of the clutch position is changed as a function of said comparison.

## Allowable Subject Matter

Claims 15, 17, 19, 20, 23, 24, 29, and 31 - 35 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEREK D. KNIGHT whose telephone number is (571)272-7951. The examiner can normally be reached on Mon - Friday, 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (571) 272-7095. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. D. K./ Examiner, Art Unit 3655 /CHARLES A. MARMOR/ Supervisory Patent Examiner, Art Unit 3655